## In the Claims

1. (Cancelled) A method for producing an immunoglobulin exhibiting a higher affinity for an antigen, comprising the steps of:

introducing at least one mutation into a parent polynucleotide sequence encoding an immunoglobulin chain variable region to product a mutant sequence, wherein said mutant sequence encodes a variable region that has a different pattern of glycosylation sites than a variable region encoded by said parent polynucleotide sequence; and expressing said mutant sequence in a cell.

- 2. (Cancelled) The method of Claim 1, wherein said mutant sequence has at least one mutation in a V region framework.
- 3. (Cancelled) The method of Claim 2, wherein the mutant sequence encodes a variable region that has fewer glycosylation sites than the variable region encoded by the parent polynucleotide sequence.
- 4. (Cancelled) The method of Claim 3, wherein said mutant sequence encodes a variable region that has no glycosylation sites and the variable region encoded by the parent polynucleotide sequence has at least on glycosylation site.
- 5. (Cancelled) The method of Claim 1, wherein the mutation is a substitution mutation that changes at least one codon of the parent polynucleotide sequence to a different codon at the same position in the mutant sequence.
- 6. (Cancelled) The method of Claim 5, wherein the substitution mutation occurs in a consensus N-linked glycosylation site sequence present in the parent polynucleotide sequence, said site selected from the group consisting of:
  - (1) -Asn-X-Ser-; and
  - (2) -Asn-X-Thr-;

where X may be any conventional amino acid, other than Pro.

7. (Cancelled) The method of Claim 6, wherein the substitution mutation results in a conservative amino acid substitution.

- 8. (Cancelled) The method of Claim 1, wherein the V region framework is substantially identical to a V region framework of a heavy chain variable region.
- 9. (Cancelled) The method of Claim 8, wherein the V region framework is substantially identical to a V region framework of a human heavy chain variable region.
- 10. (Cancelled) The method of Claim 8, wherein said heavy chain variable region comprises a V region framework substantially identical to a V region framework of a first species and at least one complementarity determining region substantially identical to a second species.
- 11. (Cancelled) A method of Claim 8, wherein the V region framework is substantially identical to an amino acid sequence selected from the group consisting of:

-Lys-Ala-Thr-Leu-Thr-Val-Asp-Asn-Ser-Ser-Ser-Thr-Ala-Tyr-; and

-Lys-Ala-Thr-Ile-Thr-Ala-Asp-Glu-Ser-Thr-Asn-Thr-Ala-Tyr.

- 12. (Cancelled) The method of Claim 10, wherein the V region framework is substantially identical to murine M195 heavy chain V region framework.
- 13. (Cancelled) The method of Claim 10, wherein the V region framework is substantially identical to V region framework of humanized M195 heavy chain.
- 14. (Cancelled) A method for increasing affinity of an antibody for an antigen, comprising the steps of:

producing a mutation that removes a glycosylation site in a variable region of a parent immunoglobulin chain to produce a glycosylation-reduced immunoglobulin; and, expressing said glycosylation-reduced immunoglobulin in a cell.

15. (Cancelled) The method of Claim 14, wherein the mutation removes a consensus N-linked glycosylation site sequence.

- 16. (Cancelled) The method of Claim 14, wherein the mutation removes a glycosylation site in a V region framework.
- 17. (Cancelled) A method for producing a glycosylation-supplemented immunoglobulin, comprising the steps of:

introducing a mutation into a parent sequence, wherein the mutation creates a consensus sequence N-linked glycosylation site sequence, said site selected from the group consisting of:

- (1) -Asn-X-Ser-; and
- (2) -Asn-X-Thr-;

where X may be any conventional amino acid, other than Pro.

- 18. (Cancelled) A mutant immunoglobulin, comprising at least one immunoglobulin chain having a V region framework wherein at least one naturally-occurring glycosylation site that is present in a parent immunoglobulin sequence is abolished in the mutant sequence, and wherein the mutant immunoglobulin has an affinity for antigen that is higher than the parent immunoglobulin.
- 19. (Cancelled) A mutant immunoglobulin of Claim 18, wherein the mutant immunoglobulin has at least four-fold higher affinity for antigen than the parent immunoglobulin.
- 20. (Cancelled) A mutant immunoglobulin of Claim 18, wherein at least one carbohydrate moiety is attached to a constant region amino acid residue through N-linked or O-linked glycosylation.

21. (Cancelled) A mutant immunoglobulin of Claim 18, wherein said naturally-occurring glycosylation site is present in the parent immunoglobulin in a region spanning from about amino acid residue 65 to about amino acid residue 85.

- 22. (Cancelled) A mutant immunoglobulin of Claim 18, wherein said naturally-occurring glycosylation site is present in the parent immunoglobulin in a region adjacent to a CDR.
- 23. (Cancelled) A mutant immunoglobulin, comprising at least one immunoglobulin chain having a glycosylation site at a position in a V region framework, wherein said glycosylation is not present in a naturally-occurring V region framework at said position in a parent sequence.
- 24. (Cancelled) A mutant immunoglobulin according to Claim 23, wherein the glycosylation site is in a V region framework.
- 25. (Cancelled) A glycosylation-reduced antibody having a higher affinity that a parent antibody.
- 26. (Cancelled) A glycosylation-supplemented antibody.
- 27. (Cancelled) A polynucleotide comprising a nucleotide sequence that encodes a mutant immunoglobulin.
- 28. (Cancelled) A cell containing a polynucleotide of Claim 27.
- 29. (Cancelled) A composition comprising at least one mutant immunoglobulin.
- 30. (Currently Amended) A mutant antibody that comprises a mutant immunoglobulin chain, the mutant antibody having higher affinity for an antigen than a parent antibody that comprises a parent immunoglobulin chain, wherein the mutant immunoglobulin chain comprises an amino acid substitution that eliminates a variable region glycosylation site of the parent

immunoglobulin chain[[,]] said elimination having the effect of increasing the affinity of the mutant antibody relative to the parent antibody.

- 31. (Previously Presented) The mutant antibody of claim 30, wherein the glycosylation site is an N-linked glycosylation site selected from the group consisting of:
  - (1) -Asn-X-Ser-; and
  - (2) –Asn-X-Thr-;

wherein X is an amino acid other than Pro.

- 32. (Previously Presented) The mutant antibody of claim 30 wherein the glycosylation site is an O-linked glycosylation site selected from the group consisting of:
  - (1) -Thr-X-X-Pro-; and
  - (2) -Ser-X-X-Pro-;

wherein X is an amino acid.

- 33. (Previously Presented) The mutant antibody of claim 30 wherein the mutant antibody is a humanized version of the parent antibody.
- 34. (Previously Presented) The mutant antibody of claim 30 whose variable region has no glycosylation sites.
- 35. (Previously Presented) The mutant antibody of claim 30 whose variable region has no N-linked glycosylation sites.
- 36. (Previously Presented) The mutant antibody of claim 30 wherein the parent antibody is murine M195 antibody.
- 37. (Previously Presented) The mutant antibody of claim 30 wherein the mutant antibody is a humanized M195 antibody.

38. (Previously Presented) The mutant antibody of claim 30 wherein the antigen is a cell surface glycoprotein.

- 39. (Previously Presented) The mutant antibody of claim 30 wherein the mutant immunoglobulin chain is an immunoglobulin heavy chain.
- 40. (Previously Presented) The mutant antibody of claim 30 wherein the amino acid substitution is a conservative amino acid substitution.
- 41. (Previously Presented) The mutant antibody of claim 31 wherein the mutant immunoglobulin chain is an immunoglobulin heavy chain.
- 42. (Previously Presented) The mutant antibody of claim 31 wherein the amino acid substitution is a conservative amino acid substitution.
- 43. (Previously Presented) The mutant antibody of claim 32 wherein the mutant immunoglobulin chain is an immunoglobulin heavy chain.
- 44. (Previously Presented) The mutant antibody of claim 32 wherein the amino acid substitution is a conservative amino acid substitution.
- 45. (Previously Presented) The mutant antibody of claim 38 wherein the cell surface glycoprotein is the CD33 antigen.